

PATENT SPECIFICATION

1,132,148



DRAWINGS ATTACHED

1,132,148

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COMPLETE SPECIFICATION

Improvements in or relating to Trolleys, Trucks or Wheeled Pallets

We, HUGH STEVENSON, A British subject, of Ferndene, Bashley, New Milton, Hampshire, and DAVID MALCOLM HUMPHREY, a British subject, of Derwent House, Kingsworthy, Winchester, Hampshire, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to a trolley, truck or wheeled pallet used for the transportation of containers or the like.

Such devices are known in which shelves or trays are supported on a frame in a fixed vertical relationship to each other. The known devices suffer from the disadvantages that access to the rear of the shelves or trays from the loading side is dictated by the vertical spacing of the shelves or trays and is difficult.

An object of the present invention is to provide a trolley, truck or wheeled pallet in which access to the rear of the shelves or trays from the loading side is greatly facilitated.

According to the present invention, there is provided a trolley, truck or wheeled pallet comprising a frame extending the full width of the trolley, truck or wheeled pallet, two or more shelves or trays supported on said frame one above the other and extending for the full width of the frame, one or more of said shelves or trays each being adapted to pivot upwardly about a rear edge thereof so as to be positioned in an inclined position relative to the shelves or tray positioned immediately below it to provide a large access space to the rear of the said shelf or tray immediately below it, means being provided on said frame or on said pivotable shelves or tray to hold said pivotable shelf or tray in said inclined position.

The shelves or trays may be supported on support members forming part of the frame and the support members may be formed from flat or angle-section rails.

45 The shelves or trays may comprise a flat [Price 4s. 6d.]

sheet of material having an upwardly extending flange at the rear and side edges and a downwardly extending flange at the front edge.

The trolley, truck or wheeled pallet may be provided with a pair of wheels at one end and a pair of support legs at the other end, said trolley, truck or wheeled pallet being adapted to be moved by a wheeled lifting device adapted to lift the end having the support legs.

Alternatively, the trolley, truck or wheeled pallet may have two pairs of wheels.

Preferably the frame and shelves are formed from steel but they can be formed from any other suitable material.

One embodiment of the present invention will now be described with reference to the drawing accompanying the provisional specification, in which:—

Figure 1 is a perspective view of a trolley according to the present invention, and

Figure 2 is a perspective view on a larger scale of one of the trays of the trolley.

The trolley comprises a frame 10 extending the full width of the trolley and having welded thereto at each side and along the rear angle section rails which form support members 11 for trays or shelves 12. A bottom shelf or tray 13 and an upper shelf or top 14 are supported on the frame 10.

Each tray or shelf 12 is provided with an upwardly extending flange 15 along its rear edge 16, an upwardly extending flange 17 along each side edge 18 and a downwardly extending flange 19 along its front edge 20.

When the shelves or trays 12 are seated on their support members 11, the downwardly extending flange 19 of each shelf or tray 12 prevents containers stacked or supported on the shelf or tray 12 or 13 positioned immediately below it from sliding forwardly off the shelf or tray. The flanges 15 and 17 prevent containers sliding off the shelves or trays either sideways or rearwardly.

Alternatively the flanges 17 may be dispensed with, in which case containers are pre-

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vented from sliding off the tray 12 sideways by the upwardly directed flange of the angle-section support member 11.

In order to provide a large access space to the rear of the shelf or tray 12 or 13 immediately below it, each shelf or tray 12 can be pivoted about its rear edge 16 on the rear support member 11 to an upwardly inclined position as shown with the upper shelf or tray 12 in Figure 1. Hook-like holding devices 21 are pivoted on the support members 11 which, when moved into an operative position beneath the respective trays or shelves hold the shelves or trays 12 in the inclined position.

The frame 10 is supported on a pair of wheels 22 at one end and its other end on a pair of legs 23 forming part of the frame 10.

The trolley can be moved by positioning a wheeled lifting device (not shown) between the legs 23 so as to be able to raise the legs 23 off the ground or floor.

Alternatively the frame 10 may be supported on two pairs of wheels. The support members 11 may comprise flat metal strips instead of being of angle section.

The trolley disclosed is particularly useful in the bulk transportation of eggs. The containers for the eggs can be loaded onto the trays or shelves 12, 13 of the trolley quite easily by pivoting the shelf or tray 12 immediately above the one being loaded into the inclined position and then lowering the inclined upper tray 12 when the lower one has been filled.

When the required number of containers have been stacked on the trolley, it can then be easily moved onto a transportation vehicle.

WHAT WE CLAIM IS :—

1. A trolley, truck or wheeled pallet comprising a frame extending the full width of the trolley, truck or wheeled pallet, two or more shelves or trays supported on said frame one above the other and extending for the full width of the frame, one or more of said shelves or trays each being adapted to pivot upwardly about a rear edge thereof so as to be positioned in an inclined position relative to the shelf or tray positioned immediately below it to provide a larger access space to the rear of the said shelf or tray immediately below it, means being provided on said frame or on said pivotable shelves or trays to hold said pivotable shelves or trays in said inclined position.
2. A trolley, truck or wheeled pallet as claimed in claim 1 in which the shelves or trays are supported on support members forming part of the frame.
3. A trolley, truck or wheeled pallet as claimed in claim 2 in which the support members are formed from flat or angle-section rails.
4. A trolley, truck or wheeled pallet as claimed in any preceding claim in which the shelves or trays comprise a flat sheet of material having an upwardly extending flange at the rear and side edges and a downwardly extending flange at the front edge.
5. A trolley, truck or wheeled pallet as claimed in any preceding claim in which a pair of wheels are provided at one end of the frame and a pair of support legs are provided at the other end, said trolley, truck or wheeled pallet being adapted to be moved by a wheeled lifting device adapted to lift the end having the support legs.
6. A trolley, truck or wheeled pallet as claimed in any one of claims 1 to 4 having a pair of wheels at both ends of the frame.
7. A trolley, truck or wheeled pallet as claimed in any preceding claim in which the frame and shelves or trays are formed from metal such as steel.
8. A trolley, truck or wheeled pallet as claimed in any preceding claim in which said means for holding the shelves or trays in their inclined position comprises a hook-like member pivoted to the support member of the frame located above the shelf or tray and movable beneath said shelf or tray when in said inclined position.
9. A trolley, truck or wheeled pallet substantially as hereinbefore described with reference to and as illustrated in the drawings accompanying the provisional specification.

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1 SHEET

PROVISIONAL SPECIFICATION

*This drawing is a reproduction of
the Original on a reduced scale*

Fig. 1.

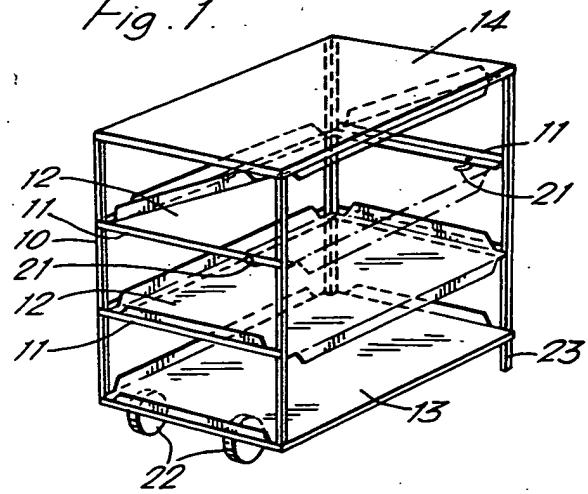


Fig. 2.

